

| PO No | Supplier | Line Item No | Ref No | Terms | Purchased Item | Description | For Part No | Project | Equipment ID | Order Qty | Due Date | Received Quantity | Accounting Job No | Serial No | Status | Receive Date | Price/Unit | Aging Days | Past Due | Total | Supplier Name |
|----------|-----------|--------------|--------|--------|----------------------|---|-------------|---------|--------------|-----------|----------|-------------------|-------------------|-----------|-----------|---------------|----------------|------------|----------|---------------|---------------|
| PO038340 | MEC002-VU | 1 | 1 | Net 30 | M7075T73B4.000x4.000 | 7075-T73 Bar 4.0 X 4.0 Grain Direction Along 4" Wide : MATERIAL: 7075-T73 OR 7075-T7351/T73510/T73511 BAR PER AMS-QQ-A-200/11 OR AMS-QQ-A-225/9 OR AMS 4124 OR AMS-QQ-A-250/12 OR AMS 4078 receive ft | | | | | 8 | 12/4/2017 | 8 | S017358 | Stock | 12/5/2017 | \$ 111.75 / ft | 0 | | \$894.00 | Metaux Castle |
| | | 2 | | | M7075T6S.375X5.000 | 7075-T6 Sheet .375" Thick Plate X 5" Wide : MATERIAL: 7075-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR ASTM B209 receive ft | | | | 48 | | 48 | S017359 | Stock | 12/6/2017 | \$ 18.10 / ft | 0 | | \$868.80 | Metaux Castle | |
| | | 3 | | | M7075T6S1.000X7.000 | 7075-T6 Sheet 1" Thick Plate X 7" Wide : MATERIAL: 7075-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR ASTM B209 receive ft | | | | 24 | | 24 | S017360 | Stock | 12/5/2017 | \$ 30.45 / ft | 0 | | \$730.80 | Metaux Castle | |
| | | | | | | | | | | Total: | 80 | 80 | | | | | | | | | \$2,493.60 |

Plex 12/5/2017 11:10 AM Dart Plouffe Sonia

INTERORG TRANSFER
PACKING SLIP/
CERTIFICATE OF CONFORMANCE

Page 1 of 2

Shipment No:3442525

| Ship From: | | Sold To: | | Ship To: | | Deliver To: | |
|---|--------------------|--|---|--|--------------------|--|-------------------------|
| A. M. CASTLE & CO. 14001 ORANGE AVENUE PARAMOUNT, CA 90723 USA | | DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON L5N 2K7 CAN | | A. M. CASTLE & CO. 2150 ARGENTIA ROAD MISSISSAUGA, ON L5N 2K7 CAN | | DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA | |
| Date Shipped | | F.O.B. | | Freight Terms | | Carrier | |
| 20-NOV-17 | | ORIGIN | | Prepaid | | YRC | |
| Shipment Details | | | | Final Destination Branch - TOR | | | |
| Order No | Line No | Item No | Description | Ordered Qty | Invoice Qty | | |
| 4955369 | 1 | 752132.MO | 4.0000.PL.7075.T7351.ALUMINUM.USI.48.5000.144.5000 CUT 2SIDED TO 48.5 IN ((GRAIN TO RUN ALONG 4"')) X 4 IN (+ .1250/- .0000 IN ((GRAIN TO RUN ALONG 4"')) - ALUMINUM PLATE SAW SPECIFICATIONS: AMS-QQ-A-250/12 | 2.00 PCS | 2.00 PCS | | |
| Purchase Order No | | Part Number | | Details | | | |
| 38340 | | | | ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #'S Email P/s and certs to: clavoie@dartaero.com END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS | | | |
| Delivery No. | Mill/Source | Heat Number | Mech Id | PCS | Width (IN) | Length (IN) | Shipped Qty(LBS) |
| 121446201 | KAISER ALUMINUM | | 2 | | | | 160.8277 |

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. Government or as otherwise authorized by U.S. law and regulations.

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co., within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.

Date Printed: 20-NOV-2017 04:38:15 PM

**INTERORG TRANSFER
PACKING SLIP/
CERTIFICATE OF CONFORMANCE**

Reviewed by Authorized Castle Metals Representative:

Date: _____ Name: _____

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Page 2 of 2



Sterling

| | |
|----------|---|
| SHIP TO: | A M CASTLE & CO 14001 ORANGE AVE P.O. BOX 1402 PARAMOUNT, CA 90723 |
| SOLD TO: | AM CASTLE & CO- SOLD TO 1420 KENSINGTON RD SUITE 220 OAK BROOK, IL 60523 |

KAISER
ALUMINUM

Trentwood Works - Spokane, WA 99215
Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number
4477074

| CUSTOMER PO NUMBER: | WORK PACKAGE: | CUSTOMER PART NUMBER: | SHIP RUN/LOAD: | GOV'T CONTRACT NUMBER: |
|---------------------|---------------|-----------------------|----------------|--------------------------|
| 432944-1 | | 752132 | 104033/21 | |
| KAISER ORDER NO: | SHIP DATE: | ALLOY: | CLAD: | PRODUCT DESCRIPTION: |
| 1241641-1 | 7-SEP-2017 | 7075 | BARE | T7351 KaiserSelect Plate |

WEIGHT SHIPPED: QUANTITY: TRUCK BIL #: GAUGE: DIAMETER WIDTH: LENGTH:

5692 LB 2 PCS EST. 2068867 4.0000 IN 48.500 IN 144.500 IN (3670.3 MM)

MHU 2145174; LOT 234577B5: 1 pieces;
MHU 2145175; LOT 234577B5: 1 pieces;

Certified Specifications

AMS 4078/RevJ
ASTM B 209/Rev14
BSS 7055/RevB
DPS 4.713/RevAK
MMS 159/RevT

AMS-QQ-A-250/12 RevA
ASTM B 594/Rev13
CMMMP 025/RevV
GAMPS 9101/RevB/AmdSCN1
PS 21211/RevP

AMS-STD-2154/RevC
BAC 5439/RevJ
CSTI 006/RevE
GSS16100/RevG/Amd1

Test Code: 4297
Lot: 234577B5 Cast 498

Test Results
Drop 50 Ingot 5



Melted in USA

(ASTM E8/B557)
(EN 2002-1)

| Tensile: | Temper | Dir / # Tests | Ultimate KSI (MPA) | Yield KSI (MPA) | Elongation % |
|----------|--------|------------------|----------------------------|----------------------------|--------------|
| | T7351 | LT / 2 (Min:Max) | 63.1 : 63.2 (435 : 436) | 49.8 : 50.6 (343 : 349) | 10.5 : 10.5 |

(ASTM E1004)
(EN 2004-1)
Conductivity % IACS : 41.5 Min 41.6 Max
(MS/M) : 24.1 Min 24.1 Max

(ASTM E1251)

| Chemistry: | Si | FE | CU | MN | MG | CR | ZN | TI | V | ZR | OTHER |
|-------------|------|------|-----|------|-----|------|-----|------|------|------|----------|
| Actual(wt%) | 0.08 | 0.17 | 1.5 | 0.04 | 2.5 | 0.20 | 5.8 | 0.02 | 0.01 | 0.02 | TOT 0.03 |



Trentwood Works - Spokane, WA 99215
Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number
4477074

ALLOY LIMITS

| | SI | FE | CU | MN | MG | CR | ZN | TI | V | ZR | OTHER | MAX |
|----------|------|------|-----|------|-----|------|-----|------|------|------|-------|------|
| 7075 | | | | | | | | | | | | |
| MIN(wt%) | 0.00 | 0.00 | 1.2 | 0.00 | 2.1 | 0.18 | 5.1 | 0.00 | 0.00 | 0.00 | EACH | 0.05 |
| MAX(wt%) | 0.40 | 0.50 | 2.0 | 0.30 | 2.9 | 0.28 | 6.1 | 0.20 | 0.05 | 0.05 | TOT | 0.15 |

Aluminum Remainder

ORDER COMMENTS

AMC CA-15413E R 6

TEST NOTES

Metal represented by this test report was 100% Type I (immersion) ultrasonically tested from one side with 3mm dead zones top and bottom and meets the Class A and Class B requirements of all specifications referenced on this test report. No surface marking of sonic indications is performed.

CERTIFICATION

Kaiser Aluminum, Trentwood Works, is ISO 9001, AS9100, and ISO 14001 certified, and hereby certifies that all material shipped under this order:

- has been inspected, tested, and found to be in conformance with the requirements of the specifications indicated herein.
- All test equipment and measuring devices are calibrated and certified in accordance (applicable specifications. For material thicknesses outside specification limits, mechanical properties are as shown herein and chemical composition meets specification requirements. Reported elongation values have been measured as elongation at fracture.
- was melted in the United States of America or a qualifying country per DFARS 225.872-1(a), was manufactured in the United States of America, and meets the requirements of DFARS 232.225 for domestic content.
- has been thermally processed in compliance with AMS 2772, where applicable.
- is mercury free, within the limits of detection of ASTM E1215 (< 1ppm).
- is in compliance with RoHS 2, European Union Directive 2011/65/EU.
- is in compliance with European Chemical Agency, ECHA, REACH regulations, (EC) No 1907/2006, and Kaiser regularly monitors these regulations for updates.
- Is free of Conflict Minerals, as defined in Section 15.2 of the Dodd-Frank Act.
- is free of weld repair.
- meets the reporting requirements of EN10204, Type 3.1.

Any warranty is limited to that shown on Kaiser Aluminum's standard general terms and conditions of sale. Test reports are on file, subject to examination. Test reports shall not be reproduced except in full, without the written approval of the Kaiser Aluminum laboratory. The recording of false, fictitious or fraudulent statements or entries on the certificate may be punished as a felony under federal law.

JAMES HEMENWAY, TECHNICAL PROCESS MANAGER

**INTERORG TRANSFER
PACKING SLIP/
CERTIFICATE OF CONFORMANCE**

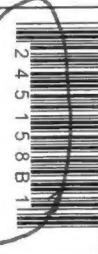
Page 1 of 1

Shipment No:3442525

| Sold To: | Ship To: | Deliver To: |
|---|---|--|
| A. M. CASTLE & CO. 14001 ORANGE AVENUE PARAMOUNT, CA 90723 USA | DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA | A. M. CASTLE & CO. 2150 ARGENTIA ROAD MISSISSAUGA, ON L5N 2K7 CAN |

| Date Shipped | F.O.B. | Freight Terms | Carrier | BOL No |
|---------------------|---------------|----------------------|----------------|---------------|
| 20-NOV-17 | ORIGIN | Prepaid | YRC | 3442525-2 |

| Shipment Details | | Final Destination Branch - TOR | | | |
|---|--|---------------------------------------|--|--|--|
| <i>ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #'S Email P/s and certs to: clavoie@dartaero.com END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS</i> | | | | | |

| Delivery No. | Mill/Source | Heat Number | Mech Id | PCS | Width (IN) | Length (IN) | Shipped Qty(LBS) |
|---------------------|--------------------|---|----------------|------------|-------------------|--------------------|-------------------------|
| 121446201 | KAISER ALUMINUM |  | 4 | 4 | | 113.5452 | |

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. Government or as otherwise authorized by U.S. law and regulations.

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material found to be incorrect, or material which does not conform to the description, may not be returned for credit.

Reviewed by Authorized Castle Metals Representative:

Date: Name:

1-21-15

Date Printed: 20-NOV-2017 04:38:15 PM

SHIP TO:
 A M CASTLE & CO
 14001 ORANGE AVE
 P.O. BOX 1402
 PARAMOUNT, CA 90723

SOLD TO:
 AM CASTLE & CO- SOLD TO
 1420 KENSINGTON RD
 SUITE 220
 OAK BROOK, IL 60523

KAISER
ALUMINUM

Trentwood Works - Spokane, WA 99215
 Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number
 4481839

| CUSTOMER PO NUMBER: | | WORK PACKAGE: | CUSTOMER PART NUMBER: | | SHIP RUN/LOAD: | GOV'T CONTRACT NUMBER: |
|---------------------|-------------|---------------|---------------------------|--------------------------|---------------------------|------------------------|
| 438454-1 | | | 750067 | | 104070/8 | |
| KAISER ORDER NO: | | SHIP DATE: | ALLOY: | CLAD: | TEMPER: | PRODUCT DESCRIPTION: |
| 1244225-1 | | 14-OCT-2017 | 7075 | BARE | T651 | Sawed Plate |
| WEIGHT SHIPPED: | QUANTITY: | TRUCK B/L #: | GAUGE: | DIAMETER/WIDTH: | LENGTH: | |
| 3198 LB | 12 PCS EST. | 2069553 | 0.3750 IN (9.5250 MM) | 48.500 IN (1231.9 MM) | 144.500 IN (3670.3 MM) | |

MHU 2157346: LOT 245158B1: 12 pieces;

Certified Specifications

AMS 4045/RevL
 CMMP 025/RevV

AMS-QQ-A-250/12/RevA

ASTM B 209/Rev14

Test Code: 1512

Lot: 245158B1 Cast 534

Drop 25

Test Results

Ingot 5

Melted In USA

(ASTM E8/B557)
 (EN 2002-1)

| Tensile: | Temper | Dir / # Tests | Ultimate KSI (MPA) | Yield KSI (MPA) | Elongation % |
|----------|--------|------------------|----------------------------|----------------------------|--------------|
| | T651 | LT / 3 (Min:Max) | 85.5 : 85.8 (590 : 592) | 75.8 : 76.0 (523 : 524) | 13.3 : 13.5 |

(ASTM E1251)

| Chemistry: | Si | FE | CU | MN | MG | CR | ZN | TI | V | ZR | OTHER |
|-------------|------|------|-----|------|-----|------|-----|------|------|------|----------|
| Actual(wt%) | 0.10 | 0.17 | 1.5 | 0.04 | 2.5 | 0.19 | 5.8 | 0.03 | 0.01 | 0.02 | TOT 0.03 |

ALLOY LIMITS

| 7075 | Si | FE | CU | MN | MG | CR | ZN | TI | V | ZR | OTHER | MAX |
|----------|------|------|-----|------|-----|------|-----|------|------|------|-------|------|
| MIN(wt%) | 0.00 | 0.00 | 1.2 | 0.00 | 2.1 | 0.18 | 5.1 | 0.00 | 0.00 | 0.00 | EACH | 0.05 |
| MAX(wt%) | 0.40 | 0.50 | 2.0 | 0.30 | 2.9 | 0.28 | 6.1 | 0.20 | 0.05 | 0.05 | TOT | 0.15 |

Aluminum Remainder

ORDER COMMENTS

AMC CA-15409 R 3





Trentwood Works - Spokane, WA 99215
Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number
4481839

CERTIFICATION

Kaiser Aluminum, Trentwood Works, is ISO 9001, AS9100, and ISO 14001 certified, and hereby certifies that all material shipped under this order:

- has been inspected, tested, and found to be in conformance with the requirements of the specifications indicated herein.
- All test equipment and measuring devices are calibrated and certified in accordance applicable specifications. For material thicknesses outside specification limits, mechanical properties are as shown herein and chemical composition meets specification requirements. Reported elongation values have been measured as elongation at fracture.
- was melted in the United States of America or a qualifying country per DFARS 225.872-1(a), was manufactured in the United States of America, and meets the requirements of DFARS 252.225 for domestic content.
- has been thermally processed in compliance with AMS 2772, where applicable.
- is mercury free, within the limits of detection of ASTM E1215 (<1ppm).
- is in compliance with RoHS 2, European Union Directive 2011/65/EU.
- is in compliance with European Chemical Agency, ECHA, REACH regulations, (EC) No 1907/2006, and Kaiser regularly monitors these regulations for updates.
- is free of Conflict Minerals, as defined in Section 15.2 of the Dodd-Frank Act.
- is free of weld repair.
- meets the reporting requirements of EN10204, Type 3.1.

Any warranty is limited to that shown on Kaiser Aluminum's standard general terms and conditions of sale. Test reports are on file, subject to examination. Test reports shall not be reproduced except in full, without the written approval of the Kaiser Aluminum laboratory. The recording of false, fictitious or fraudulent statements or entries on the certificate may be punished as a felony under federal law.

JAMES HEMENWAY, TECHNICAL PROCESS MANAGER

INTERORG TRANSFER
PACKING SLIP/
CERTIFICATE OF CONFORMANCE

Page 1 of 1

Shipment No:3442525

| Ship From: | Sold To: | Ship To: | Deliver To: | |
|---|--|--|--|-----------|
| A. M. CASTLE & CO. 14001 ORANGE AVENUE PARAMOUNT, CA 90723 USA | DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON L5N 2K7 CAN | A. M. CASTLE & CO. 2150 ARGENTIA ROAD MISSISSAUGA, ON L5N 2K7 CAN | DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA | |
| Date Shipped | F.O.B. | Freight Terms | Carrier | BOL No |
| 20-NOV-17 | ORIGIN | Prepaid | YRC | 3442525-2 |
| Shipment Details | | Final Destination Branch - TOR | | |

| Order No | Line No | Item No | Description | | | | |
|---|-----------------------------------|---------------|--|-----|------------|-------------|------------------|
| 4955369 | 3 | 752188.MO | 1.0000.PL.7075.T651.ALUMINUM.USI.48.5000.144.5000 CUT 2SIDED TO 7 IN (+ .0620/- .0000 IN) X 144.5 IN () - ALUMINUM PLATE SAW SPECIFICATIONS: AMS-QQ-A-250/12 | | | | |
| Purchase Order No | Part Number | Ordered Qty | Invoice Qty | | | | |
| 38340 | | 2.00 PCS | 2.00 PCS | | | | |
| Details | | | | | | | |
| ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY | | | | | | | |
| ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #S | | | | | | | |
| Email P/s and certs to: clavoie@dartaero.com | | | | | | | |
| END USER: DART AEROSPACE | | | | | | | |
| END USE: COMMERCIAL AIRCRAFT PARTS | | | | | | | |
| Delivery No. | Mill/Source | Heat Number | Mech Id | PCS | Width (IN) | Length (IN) | Shipped Qty(LBS) |
| 121446201 | CONSTELLIUM ROLLED PRODUCTS | 9 4 0 0 6 5 9 | | 2 | | | 210.6575 |

| |
|--|
| These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. Government or as otherwise authorized by U.S. law and regulations. |
| We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specification concerning a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co., within 60 days of the shipment. Material not to the correct size or material and/or customer cannot be returned for credit. |
| Reviewed by Authorized Castle Metals Representative: _____ Date: _____ Name: _____ |

Date Printed: 20-NOV-2017 04:38:15 PM



CERTIFIED TEST REPORT
Constellium Rolled Products
Ravenswood, LLC

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A M CASTLE & CO.
14001 ORANGE AVE
PARAMOUNT CA
90723
US

S
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L
D

T
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A M CASTLE
1420 KENSINGTON ROAD, SUITE 220
OAK BROOK IL
60523
US

| A M CASTLE 110586095 4075 INCLUSION | | | | Serial:20171025-0110586095 Pg 1 of 2 | | | |
|---|---------|-------------------------|---------------------------------|--------------------------------------|------------------------------------|--|--------|
| CUSTOMER PURCHASE ORDER NO. & ITEM 438535 | | | | Constellium ORDER NO. 219662 | | | |
| ALLOY 7075 | CLAD | TEMPER T651 | GAUGE 1.00000 in 25.40 mm | WIDTH 48.50000 in 1,232 mm | LENGTH 144.50000 in 3,670 mm | CERTIFICATION "Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination." Constellium Rolled Products Ravenswood, LLC 859 Century Road P.O. BOX 68 RAVENSWOOD, WV 26164 USA  Steve Good - Laboratory Manager | |
| ITEM ORDERED SPEC PLATE, SAWED MILL FINISH | | | | | | | |
| CUSTOMER SPECIFICATION AMS 4045K <i>Deal</i> | | | | | | | |
| PART NUMBER 752188 | | B/L NUMBER 89188 | | DATE SHIPPED 10/26/2017 | | | |
| WT. SHIPPED 2100.000 LB | | NO. OF PIECES 000003 | | GOVT. CONTRACT NO. | | | |
| ALL LOTS ON THIS CERTIFICATION ALSO CONFORM TO THE FOLLOWING REQUIREMENTS: ASTM B594 REV 13 2013 100% SONIC W/ 0.125" DEADZONE Class A AMS QQ-A-250/12A AMS-STD-2154A 2012 TYPE1 CLASS A 100% SONIC MINUS DEADZONE ASTM B209-14 BSS-7055B 2013 CLASS A 100% SONIC TESTED MINUS DEADZONE CSTD1006 REV E 2011 CLASS A 100% SONIC MINUS DEADZONE DPS 4.713 REV AK 2012 CLASS A 100% SONIC MINUS DEADZONE GAMPS 9101 REV B 2006 CLASS A 100% SONIC MINUS DEADZONE PS 21211P 2010 CLASS A 100% SONIC MINUS DEADZONE | | | | | | | |
| Load Details | | | | | | | |
| Package | Net Lbs | Kg | Lot | Piece | Serial | Parent Lot | |
| 1001633226 | 700.000 | 317.514 | 9400659 | 01 | | | |
| 1001633226 | 700.000 | 317.514 | 9400659 | 02 | | | |
| 1001633226 | 700.000 | 317.514 | 9400659 | 03 | | | |
| Lot: 9400659 <i>Deal</i> | | | | | | | |
| Tensile - Room Temperature (US) | | | | | | | |
| | | Ultimate (KSI) | | Yield (KSI) | | Elongation (%) | Report |
| Direction | Tests | Min | Max | Min | Max | Min | Max |
| LT | 02 | 82.1 | 82.3 | 73.1 | 73.8 | 13.5 | 13.5 |
| Tensile - Room Temperature (SI) | | | | | | | |
| | | Ultimate (N/MM2) | | Yield (N/MM2) | | Elongation (%) | Report |
| Direction | Tests | Min | Max | Min | Max | Min | Max |
| LT | 02 | 566 | 567 | 504 | 509 | 13.5 | 13.5 |
|  | | | | | | | |



CERTIFIED TEST REPORT
Constellium Rolled Products
Ravenswood, LLC

S
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P
T
O

A M CASTLE & CO.
14001 ORANGE AVE
PARAMOUNT CA
90723
US

S
O
L
D
T
O

A M CASTLE
1420 KENSINGTON ROAD, SUITE 220
OAK BROOK IL
60523
US

| A M CASTLE | | 110586095 | 4075 | INCLUSION | | Serial:20171025-0110586095 | | Pg 2 of 2 | |
|---|------------|-------------------------|---------------------------------|----------------------------------|------------------------------------|--|------------|------------|------------|
| CUSTOMER PURCHASE ORDER NO. & ITEM 438535 | | | | Constellium ORDER NO. 219662 | | CERTIFICATION "Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination." Constellium Rolled Products, Ravenswood, LLC 859 Century Road P.O. BOX 68 RAVENSWOOD, WV 26164 USA | | | |
| ALLOY 7075 | CLAD | TEMPER T651 | GAUGE 1.00000 in 25.40 mm | WIDTH 48.50000 in 1,232 mm | LENGTH 144.50000 in 3,670 mm | | | | |
| ITEM ORDERED SPEC PLATE, SAWED MILL FINISH | | | | | | | | | |
| CUSTOMER SPECIFICATION AMS 4045K | | | | | | | | | |
| PART NUMBER 752188 | | B/L NUMBER 89188 | | DATE SHIPPED 10/26/2017 | | | | | |
| WT. SHIPPED 2100.000 LB | | NO. OF PIECES 000003 | | GOVT. CONTRACT NO. | | | | | |
| Steve Good - Laboratory Manager | | | | | | | | | |
| Chemistry (Actual) | | | | | | | | | |
| Core | SI 0.06 | FE 0.17 | CU 1.47 | MN 0.02 | MG 2.69 | CR 0.21 | ZN 5.69 | TI 0.04 | ZR 0.00 |
| OTHERS-EACH: .05 MAX. OTHERS TOTAL: .15 MAX. AL REMAINDER | | | | | | | | | |
| All material contained in this lot was cast and manufactured in the USA | | | | | | | | | |
| QUALITY TEXTS: AMC CA-15403 R 8 | | | | | | | | | |
| THIS TEST REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF THE LABORATORY OR AUTHORIZED QUALITY DELEGATE. THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THE CERTIFICATE MAY BE PUNISHED AS A FELONY UNDER FEDERAL LAW. | | | | | | | | | |
| CHEMISTRY BY OES: ARKSPARK | | | | | | | | | |
| CHEMISTRIES REPORTED IN PERCENTAGE BY WEIGHT | | | | | | | | | |
| WHEN FRACTURE TOUGHNESS TEST REQUIRED, TESTED PER ASTM E399 | | | | | | | | | |
| WHEN TENSILE TEST REQUIRED, TESTED PER ASTM E8; B557 | | | | | | | | | |
| DUNS Number: 090570149; CAGE Code: 1YW19 | | | | | | | | | |
| Mercury is not a normal contaminant in aluminum alloys and neither mercury nor any of its compounds were utilized in the manufacture of our product. | | | | | | | | | |
| "END OF CERTIFICATION" | | | | | | | | | |
| P-860-155D REVISED: 10 2014 | | | | | | | | | |

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M7075765-375X5.000
 DATE: DEC 06 2017

PO / BATCH NO.: 038340/5017359

MATERIAL CERT REC'D: YES
 QUANTITY RECEIVED: 48"
 QUANTITY INSPECTED: 48"
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .375
 THICKNESS RECEIVED: .375 X 5.000
 SHEET SIZE ORDERED: .375 X 5.000
 SHEET SIZE RECEIVED: .375 X 5.000

| DESCRIPTION | NCR (Check Y/N) | COMMENTS |
|--|--|------------------------|
| SURFACE DAMAGE | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | |
| CORRECT FINISH | <input checked="" type="checkbox"/> N | |
| CORROSION | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | |
| CORRECT GRAIN DIRECTION | <input checked="" type="checkbox"/> Y N | |
| CORRECT MATERIAL PER M-DRAWING | <input checked="" type="checkbox"/> Y N | <i>AMS-QQ-A-250/12</i> |
| CORRECT THICKNESS | <input checked="" type="checkbox"/> Y N | |
| PHOTO REQUIRED | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | |
| CORRECT REF # TO LINK CERT | <input checked="" type="checkbox"/> Y N | <i>Heat# 245158B1</i> |
| CORRECT MATERIAL IDENTIFICATION | <input checked="" type="checkbox"/> Y N | |
| CORRECT M# ON THE MATERIAL | <input checked="" type="checkbox"/> Y N | |
| DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | |
| DOES THIS REQUIRE AN EXTRUSION REPORT | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | |

| CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW | | | | | |
|--|-----|-----|-------|-------|---------|
| TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING | HRC | HRB | DUR A | DUR D | WEBSTER |
| | | | | | |
| | | | | | |
| | | | | | |

testers located in the Quality Office

| QC 18 INSPECTION | ENGINEERING SIGNOFF (if required) |
|--------------------------|-----------------------------------|
| INSPECTED BY: <u>9</u> | SIGNED OFF BY: _____ |
| DATE: <u>DEC 06 2017</u> | DATE: _____ |

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

△ PURCHASE MATERIAL: 7075-T6/T62/T651 ALUMINUM SHEET OR PLATE

SPECIFICATION: QQ-A-250/12 DR AMS-QQ-A-250/12
OR AMS 4045
OR ASTM B209

OR

△ PURCHASE MATERIAL: 7075-T6/T62/T651 ALCLAD ALUMINUM SHEET OR PLATE

SPECIFICATION: QQ-A-250/13 OR AMS-QQ-A-250/13
OR AMS 4048 / 4049
OR ASTM B209

△ PART NUMBER:

M7075T6S | TTT | X | W. WWW |
| THK | [WIDTH]

WHERE "TTT" = THICKNESS (IN INCHES)
AND "W.WWW" = WIDTH (IN INCHES, OPTIONAL, FOR SPECIFYING CUT PLATE)

EG. 0.063 THICK SHEET = M7075T6S.063
EG. 3.5" WIDE BY 0.500" THICK PLATE = M7075T6S.500X3.500

△ PREFERRED SIZE: .TTT BY 4FT BY 10FT FOR SHEET

RELEASED
2017 JUN 19 ✓
ECN 17-574

| APPROVED | | RELEASED | |
|------------|----------|--|---|
| DESIGN | RF | B | ADD REF TO "PLATE" "T651" TEMPER, AMS 4048, OPTIONAL WIDTH DIM (GARIG-149) |
| DRAWN | CP | A | NEW ISSUE |
| CHECKED | ML | CP | 17.05.05 |
| MFG. APPR. | LL | RF | 10.11.08 |
| APPROVED | WM | REV. B | DATE |
| DE APPR. | DS | DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA | |
| DATE | 17.05.05 | DRAWING NO. M7075T6S | |
| | | REV. B SHEET 1 OF 1 | |
| | | TITLE 7075-T6 SHEET/PLATE SPEC NTS | |
| | | SCALE N/TS | |
| | | NOTES: THIS DOCUMENT IS THE PROPERTY OF DART AEROSPACE LTD. IT IS TO BE USED FOR DART AEROSPACE LTD. BUSINESS PURPOSES ONLY. IT IS NOT TO BE COPIED OR DISSEMINATED TO ANY OTHER COMPANY OR PERSON. IT IS THE PROPERTY OF DART AEROSPACE LTD. AND MUST NOT BE COPIED OR DISSEMINATED WITHOUT THE EXPRESS WRITTEN CONSENT OF DART AEROSPACE LTD. | |

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M7075+73B 4.000 x 4.000 PO / BATCH NO.: 038340/5017358
 DATE: DEC 06 2017

MATERIAL CERT REC'D: YLS
 QUANTITY RECEIVED: 8'
 QUANTITY INSPECTED: 8"
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 4.000'
 THICKNESS RECEIVED: 4.000'
 SHEET SIZE ORDERED: 4.000' x 4.000'
 SHEET SIZE RECEIVED: 4.000' x 4.000'

| DESCRIPTION | NCR (Check Y/N) | COMMENTS |
|--|--|------------------------|
| SURFACE DAMAGE | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | |
| CORRECT FINISH | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | |
| CORROSION | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | |
| CORRECT GRAIN DIRECTION | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | |
| CORRECT MATERIAL PER M-DRAWING | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | <u>Ams-QQ-A-250/12</u> |
| CORRECT THICKNESS | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | |
| PHOTO REQUIRED | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | |
| CORRECT REF # TO LINK CERT | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | <u>Heat # 23457785</u> |
| CORRECT MATERIAL IDENTIFICATION | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | |
| CORRECT M# ON THE MATERIAL | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | |
| DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | |
| DOES THIS REQUIRE AN EXTRUSION REPORT | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | |

| CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW | | | | | |
|--|-----|-----|-------|-------|---------|
| TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING | HRC | HRB | DUR A | DUR D | WEBSTER |
| | | | | | |
| | | | | | |
| | | | | | |

testers located in the Quality Office

| QC 18 INSPECTION | ENGINEERING SIGNOFF (if required) |
|----------------------------------|-----------------------------------|
| INSPECTED BY: <u>[Signature]</u> | SIGNED OFF BY: _____ |
| DATE: <u>DEC 06 2017</u> | DATE: _____ |

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



| | | | |
|----------|--------------|---|--------------|
| DESIGN | DRAWN BY | DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA | |
| CHECKED | APPROVED | DRAWING NO. | REV A |
| | | M1075T73B | SHEET 1 OF 1 |
| DATE | TITLE | SCALE | |
| 01.06.08 | 7075-T73 BAR | NTS | |
| A | 01.06.08 | NEW ISSUE | |

PURCHASE MATERIAL: 7075-T73 (OR 7075-T7351/T73510/T73511) BAR
PER AMS-QQ-A-200/11 OR AMS-QQ-A-225/9 (AMS 4124)
OR AMS-QQ-A-250/12 (AMS 4078)

PART NUMBER: M1075T73B|T.TTT|X|W.WWW| WHERE T.TTT = THICKNESS (IN INCHES)
THICK | WIDTH W.WWW = WIDTH (IN INCHES)

EG. 2.5" X 3.25" BAR = M1075T73B2.500 X 03.250

RELEASED
mms 5/10

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M70757651.000x7.000

PO / BATCH NO.: 038340/5017360

DATE: DEC 06 2017

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 24'
 QUANTITY INSPECTED: 24'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.000
 THICKNESS RECEIVED: 1.000
 SHEET SIZE ORDERED: 1.000 x 7.000
 SHEET SIZE RECEIVED: 1.000 x 7.000

| DESCRIPTION | NCR (Check Y/N) | COMMENTS |
|--|--|-----------------------|
| SURFACE DAMAGE | <input checked="" type="checkbox"/> <input type="checkbox"/> N | |
| CORRECT FINISH | <input checked="" type="checkbox"/> <input type="checkbox"/> N | |
| CORROSION | <input checked="" type="checkbox"/> <input type="checkbox"/> N | |
| CORRECT GRAIN DIRECTION | <input checked="" type="checkbox"/> <input type="checkbox"/> N | |
| CORRECT MATERIAL PER M-DRAWING | <input checked="" type="checkbox"/> <input type="checkbox"/> N | <i>AMS 4045K</i> |
| CORRECT THICKNESS | <input checked="" type="checkbox"/> <input type="checkbox"/> N | |
| PHOTO REQUIRED | <input checked="" type="checkbox"/> <input type="checkbox"/> N | |
| CORRECT REF # TO LINK CERT | <input checked="" type="checkbox"/> <input type="checkbox"/> N | <i>Heat # 9400659</i> |
| CORRECT MATERIAL IDENTIFICATION | <input checked="" type="checkbox"/> <input type="checkbox"/> N | |
| CORRECT M# ON THE MATERIAL | <input checked="" type="checkbox"/> <input type="checkbox"/> N | |
| DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF | <input checked="" type="checkbox"/> <input type="checkbox"/> N | |
| DOES THIS REQUIRE AN EXTRUSION REPORT | <input checked="" type="checkbox"/> <input type="checkbox"/> N | |

| CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW | | | | | |
|--|-----|-----|-------|-------|---------|
| TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING | HRC | HRB | DUR A | DUR D | WEBSTER |
| | | | | | |
| | | | | | |

testers located in the Quality Office

| QC 18 INSPECTION | ENGINEERING SIGNOFF (if required) |
|--------------------------|-----------------------------------|
| INSPECTED BY: <u>JAS</u> | SIGNED OFF BY: _____ |
| DATE: <u>DEC 06 2017</u> | DATE: _____ |

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

△ PURCHASE MATERIAL: 7075-T6/T62/T651 ALUMINUM SHEET OR PLATE

SPECIFICATION: QQ-A-250442 OR AMS-QQ-A-250/12
 OR DMS 4045
 OR ASTM B209

OR

△ PURCHASE MATERIAL: 7075-T6/T62/T651 ALCLAD ALUMINUM SHEET OR PLATE

SPECIFICATION: QQ-A-250/13 OR AMS-QQ-A-250/13
 OR AMS 4048 / 4049
 OR ASTM B209

OR

△ PART NUMBER: M7075T6S |TTT|X|W|WWW|
 THK| [WIDTH]

WHERE "TTT" = THICKNESS (IN INCHES)
 AND "W|WWW" = WIDTH (IN INCHES, OPTIONAL, FOR SPECIFYING CUT PLATE)

EG. 0.063" THICK SHEET = M7075T6S.063

EG. 3.5" WIDE BY 0.500" THICK PLATE = M7075T6S.500X3.500

△ PREFERRED SIZE:

.TTT BY 4FT BY 10FT FOR SHEET

RELEASED
 2017 JUN 19 ✓
 ECN 17-574

| | | | | |
|------------|--|--|------|----------|
| B | ADD. REF TO PLATE: "T651" TEMPER, AMS 4048, OPTIONAL WIDTH DIM (CAR 16-149) | | CP | 17.05.05 |
| | A | NEW ISSUE | RF | 10.11.08 |
| REV. | DESCRIPTION | BY | DATE | |
| DESIGN | RF | DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA | | A |
| DRAWN | CP | DRAWING NO. M7075T6S | | REV. B |
| CHECKED | ML | SHEET 1 OF 1 | | |
| MFG. APPR. | LL | SCALE NTS | | |
| APPROVED | WM | COPYRIGHT © 2010 BY DART AEROSPACE LTD | | |
| DE APPR. | DS | NO COPIES OR DERIVATIVES ARE TO BE MADE FROM THIS DRAWING EXCEPT AS AUTHORIZED BY THE DRAFTSMAN OR APPROVING ENGINEER. | | |
| DATE | 17.05.05 | PRINTED FROM THE DART AEROSPACE LTD. COMPUTER SYSTEMS. THIS DRAWING IS THE PROPERTY OF DART AEROSPACE LTD. IT IS THE PROPERTY OF DART AEROSPACE LTD. IT IS THE PROPERTY OF DART AEROSPACE LTD. | | |



Dart Hawkesbury
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER
PO038340

Supplier: MEC002-VU
Metaux Castle
P.O. Box 4090 Stn A
Toronto
ON
M5W OE9 Canada

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: PO038340
PO Date: 11/13/17
Due Date: 12/4/17
Purchase Order Revision:
Revision Date:
Ship-To Contact: Lavoie, Chantal Phone:
clavoie@dartaero.com
Via: Ground
Pymt Terms: Net 30
Freight Terms:
Special Comments:

E-MAILED
NOV 15 2017

Items

| Line Item | Part | Rev | Description | Item Tax | Status | Due Date | Order Quantity | Received Quantity | Balance | Unit Price (USD) | Extended Price |
|--|----------------------|-----|---|----------|--------|----------|----------------|-------------------|---------|------------------|----------------|
| 1 | M7075T73B4.000x4.000 | | 7075-T73 Bar 4.0 X 4.0 Grain Direction Along 4" Wide : MATERIAL: 7075-T73 OR 7075-T7351/T73510/T73511 BAR PER AMS-QQ-A-200/11 OR AMS-QQ-A-225/9 OR AMS 4124 OR AMS-QQ-A-250/12 OR AMS 4078 receive ft | | Firmed | 12/4/17 | 8 ft | 0 ft | 8 ft | \$111.75/ft | \$894.00 |
| Line Item Note: NOTE: 2 PCS REQUIRED CUT AT 4 FT SECTION WITH GRAIN DIRECTION ALONG THE 4" | | | | | | | | | | | |
| 2 | M7075T6S.375X5.000 | | 7075-T6 Sheet .375" Thick Plate X 5" Wide : MATERIAL: 7075-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR ASTM B209 receive ft | | Firmed | 12/4/17 | 48 ft | 0 ft | 48 ft | \$18.10/ft | \$868.80 |
| 3 | M7075T6S1.000X7.000 | | 7075-T6 Sheet 1" Thick Plate X 7" Wide : MATERIAL: 7075-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR ASTM B209 receive ft | | Firmed | 12/4/17 | 24 ft | 0 ft | 24 ft | \$30.45/ft | \$730.80 |

Grand Total: \$2,493.60

Order Notes

Procurement Quality Clauses
A005 right of entry
A012 chemical and physical test report



Dart Hawkesbury
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO038340

Order Notes

- A016 personnel qualification
- A017 raw material identification (as applicable)
- A026 certification of material conformance
- A041 quality management system
- A042 dart notification by supplier
- A043 retention of quality documents
- A048 counterfeit parts avoidance, detection, mitigation and disposition program
- A049 supplier awareness

A handwritten signature consisting of a stylized 'W' and 'CL'.

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 11/14/17 11:28 AM *dart.lavoie.chantal*